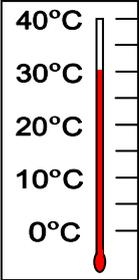
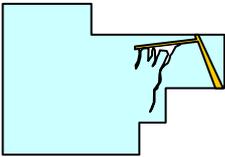
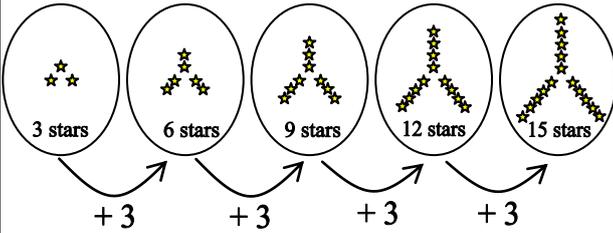
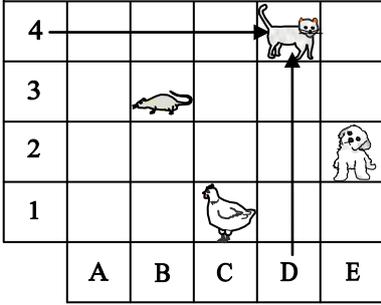
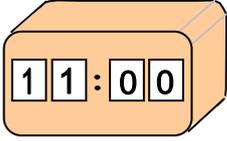
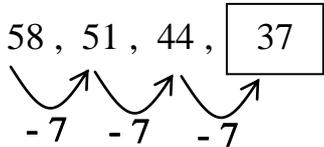
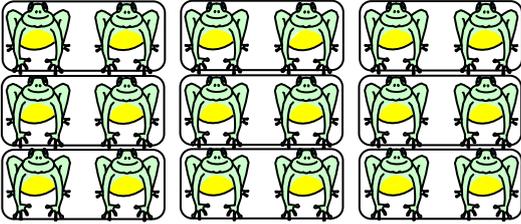
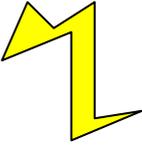
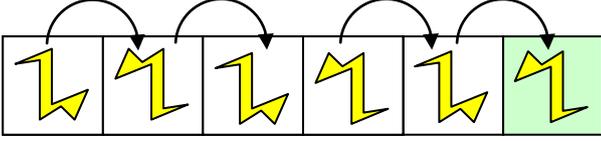
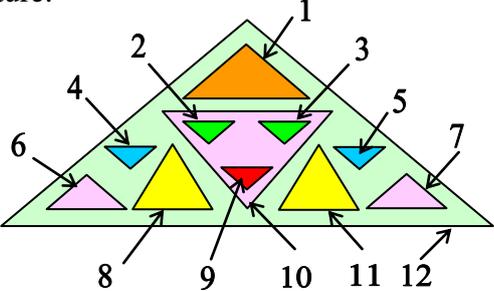
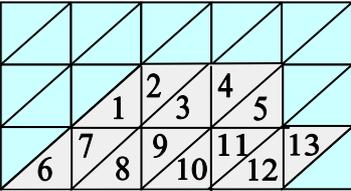


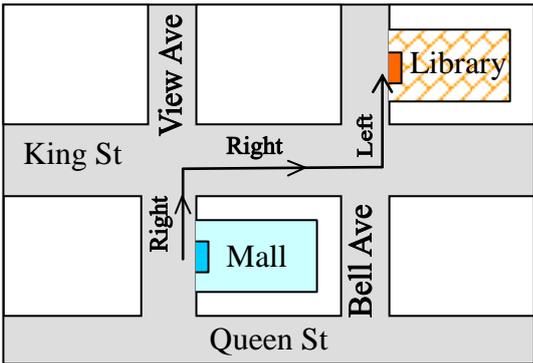
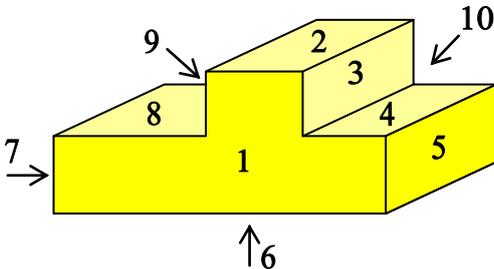
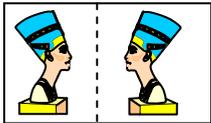
YEAR 3 – PAPER 8
NUMERACY WORKED SOLUTIONS

	ANSWER	EXPLANATION	Australian Curriculum Reference A student can
1	\$3.45	<p>\$2 and \$1 make \$3.</p> <p>Two 20 cent coins and a 5 cent coin make 45 cents.</p> <p>Hence, the total is \$3.45.</p>	<p>count and order small collections of Australian coins and notes according to their value. (ACMNA034)</p>
2		<p>A thermometer is used to measure the temperature during the day.</p>	<p>use scaled instruments to measure and compare lengths, masses, capacities and temperatures. (ACMMG084)</p>
3		<p>The shape of the second piece can fit into the gap of the puzzle, but does not match the rest of the picture of the puzzle.</p> <p>Only the fourth piece can fit and complete the puzzle.</p>	<p>describe and draw two-dimensional shapes. (ACMMG042)</p>
4	\$308	<p>Three hundred dollars can be written as \$300.</p> <p>Eight dollars can be written as \$8.</p> <p>The price of this ring is \$308.</p>	<p>recognise, model, represent and order numbers to at least 1000. (ACMNA027)</p>
5	15	<p>As shown, the number of stars in each oval is increasing by 3.</p> <p>So the next oval will have 15 stars.</p> 	<p>describe, continue, and create number patterns resulting from performing addition. (ACMNA060)</p>

6	42	The total number of goals scored is $8 + 7 + 13 + 14 = 42$.	create displays of data using lists and tables and interpret them. (ACMSP050)
7	5	The next days are Thursday, Friday, Saturday, Sunday and then Monday. So, in 5 days I will start my dancing classes.	investigate the relationship between units of time. (ACMMG062)
8		Only the top face of the juice can is in the shape of a circle.	describe the features of three-dimensional objects. (ACMMG043)
9		As shown, the cat is at D4. 	create and interpret simple grid maps to show position and pathways. (ACMMG065)
10	91	$\begin{array}{r} 1 \\ 57 + \\ \underline{34} \\ 91 \end{array}$	solve simple addition problems using a range of efficient mental and written strategies. (ACMNA030)
11	$8 + 8 + 8 + 8$	Each spider has 8 legs. So the total number of legs of 4 spiders is $8 + 8 + 8 + 8$.	recognise and represent multiplication as repeated addition. (ACMNA031)
12	21	One week has 7 days, so 3 weeks is 3 lots of 7 days, which is 21 days.	investigate the relationship between units of time. (ACMMG062)
13	60	If Peter collected more stamps than Andrew but less than Ronald, he must have 58, 59 or 60. The only one of these listed is 60.	recognise, model, represent and order numbers to at least 1000. (ACMNA027)

14	a cone on the top of a cylinder.	The top shape is a cone and the bottom shape is a cylinder.	make models of three-dimensional objects and describe key features. (ACMMG063)
15		Half an hour before 11:30 is 11:00.	tell time to the minute and investigate the relationship between units of time. (ACMMG062)
16	24	Jane has $92 - 68 = 24$ more hair clips than Paula.	solve simple subtraction problems using a range of efficient mental and written strategies. (ACMNA030)
17	3 rd of June	The six days after the 28 th of May are: 29 th of May, 30 th of May, 31 st of May, 1 st of June, 2 nd of June, 3 rd of June. So Kevin's birthday is on the 3 rd of June.	use a calendar to identify the date and determine the number of days in each month. (ACMMG041)
18	\$12	The cost of 1 kg of apples is \$2.95, which is about \$3. So to buy 4kg of apple David paid about 4 lots of \$3, which is \$12.	represent and solve problems involving multiplication using efficient mental and written strategies. (ACMNA057)
19	4	By grouping the 16 roses shown into 4 equal groups, we get 4 roses in each group. Hence, Karen put 4 roses in the vase.	recognise and interpret common uses of quarters of shapes and collections. (ACMNA033)
20	37	As shown, the pattern is formed by subtracting 7. So the next term is $44 - 7 = 37$. 	describe, continue, and create number patterns resulting from performing subtraction. (ACMNA060)

21	9	<p>As shown, the frogs can be divided into 9 groups of 2 frogs each.</p> 	<p>recognise and represent division as grouping into equal sets. (ACMNA032)</p>
22	Certain	<p>Each of these shapes has 5 sides, so each shape is a pentagon. Hence, the chance of selecting a pentagon is certain.</p>	<p>describe outcomes as 'likely' or 'unlikely' and identify some events as 'certain' or 'impossible'. (ACMSP047)</p>
23		<p>As shown, this shape  will be in the box.</p> 	<p>identify and describe half and quarter turns. (ACMMG046)</p>
24	12	<p>As shown, there are 12 triangles in this picture.</p> 	<p>describe and draw two-dimensional shapes. (ACMMG042)</p>
25	13	<p>By completing the pattern we can see that 13 more tiles are needed.</p> 	<p>describe and draw two-dimensional shapes. (ACMMG042)</p>

26	15 cm	Frank is $153 - 138 = 15$ cm taller than Mario.	solve simple subtraction problems using a range of efficient mental and written strategies. (ACMNA030)
27	10	$17 + 18 = 35$ So $45 - \square = 35$, hence $\square = 10$	solve simple addition and subtraction problems using a range of efficient mental and written strategies. (ACMNA030)
28	Right then right then left	<p>As shown, Veronica turned <i>right</i> and walked to King St, then turned <i>right</i>, walked to Bell Ave, and then turned <i>left</i> and walked to the library.</p> 	interpret simple maps of familiar locations and identify the relative positions of key features. (ACMMG044)
29	10	<p>As shown, this block has 10 faces.</p> 	describe the features of three-dimensional objects. (ACMMG043)
30		Only this diagram shows a picture flipped (reflected) about the dotted line.	investigate the effect of one-step slides and flips. (ACMMG045)

31	20	<p>Each bread roll makes 4 pieces of garlic bread.</p> <p>So 5 bread rolls make 5 lots of 4, which is 20 pieces of garlic bread.</p>	<p>recognise and interpret common uses of halves and quarters of shapes. (ACMNA033)</p>
32	6	<p>5 cans of paint have 5 lots of 5 litres, which is 25 litres.</p> <p>6 cans of paint have 6 lots of 5 litres, which is 30 litres.</p> <p>As Peter can only buy complete cans and he needs 29 litres, then he must buy 6 cans of paint.</p>	<p>represent and solve problems involving multiplication using efficient mental and written strategies. (ACMNA057)</p>
33	75 cents	<p>When 4 children share \$2, each gets 50cents and if they share \$1, each gets 25cents.</p> <p>Hence, when they share \$3, each gets $50 + 25 = 75$ cents.</p>	<p>recall multiplication facts of two, three, five and ten and related division facts. (ACMNA056)</p>
34	5	<p>When this net is folded to form a cube there will be a 2 on the top and a 5 on the bottom.</p>	<p>make models of three-dimensional objects and describe key features. (ACMMG063)</p>
35	Blueberry	<p>The total number of jellybeans in the bowl is $1 + 5 + 3 + 6 = 15$.</p> <p>The chance of Robyn getting the flavour she wants is 1 in 3, which is the same as 5 in 15.</p> <p>As there are 5 Blueberry flavoured jellybeans, this must be the flavour she wants.</p>	<p>conduct chance experiments, identify and describe possible outcomes and recognise variation in results. (ACMSP067)</p>